

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for determining a vehicle (1) speed, ~~e.g. for an automatic gear shifting system~~, comprising the steps of:

[[-]] determining at least one of if at least one driven wheel of the vehicle (6) is spinning or shows a tendency to spin ~~and/or~~ and if the vehicle (1) is being braked under influence of an antilock braking system, and

[[-]] determining the vehicle speed based on at least one of a rate of rotation of at least one non-driven wheel (10) of the vehicle, a value of the vehicle speed received from a positioning system ~~and/or~~ and a value of the vehicle speed received from a vehicle radar system (18), if in the event that either the at least one driven wheel (6) is spinning or shows a tendency to spin or the vehicle (1) is being braked under influence of the antilock braking system.

2. (Currently Amended) A method according to claim 1, comprising the further step of:
calculating the vehicle speed based on at least one of an engine speed of the vehicle, a propeller shaft speed of the vehicle and ~~and/or~~ a crank shaft speed of the vehicle, if the at least one driven wheel (6) is not spinning or shows a tendency to spin or the vehicle (1) is not being braked under the influence of the antilock braking system.

3. (Currently Amended) ~~A vehicle (1) comprising an~~ An automatic gear shifting system for a vehicle wherein the vehicle includes wheels including one driven wheel, and at least one of an antilock braking system operable on the wheels, a positioning system unit, a vehicle radar system and a traction control system;

the shifting system comprising a determining system for determining at least one of, if at least one driven wheel (6) is spinning or shows a tendency to spin ~~and/or an~~ and the antilock braking system of the vehicle is operating, and the determining system comprising: characterised by

a calculator operable calculation means(23) for calculating a vehicle speed based on a rate of rotation of at least one of the non-driven wheel of the vehicle (10), a the positioning system unit in the vehicle and the (17) ~~and/or~~ a vehicle radar system, and

the determining a system being operable means(22) for determining the vehicle speed based on at least one of a rate of the rotation of at least one non-driven wheel (10), a value of the vehicle speed received from the positioning system unit (17) ~~and/or~~ and a value of the vehicle speed received from the vehicle radar system (18), and the determining system being operable if either the at least one driven wheel (6) is spinning or shows a tendency to spin or the vehicle (1) is braked under influence of the antilock braking system.

4. (Currently Amended) A system vehicle (1) according to claim 3, wherein the vehicle further comprises an engine for driving the driven wheel, a propeller shaft and a crank shaft, the system comprising

the calculator being further operable calculating means for calculating the vehicle speed based on at least one of an engine speed of the vehicle and[[,]] a propeller shaft speed ~~and/or a crank shaft speed~~, if the at least one driven wheel (6) is not spinning or shows a tendency to spin or the vehicle (1) is not braked under the influence of the antilock braking system.

5. (Currently Amended) A computer program for determining a vehicle speed, ~~e.g. for automatic gear shift control~~, comprising computer readable code means, which when run on an electronic control unit in a vehicle, (1) causes the electronic control unit to

[[-]] determine at least one of if at least one driven wheel of the vehicle (6) is spinning or shows a tendency to spin ~~and/or~~ and if the vehicle(1) is being braked under influence of an antilock braking system, and

[[-]] determine the vehicle speed based on at least one of a rate of rotation of at least one non-driven wheel of the vehicle [[(10)]], a value of the vehicle speed received from a positioning system ~~and/or~~ and a value of the vehicle speed received from a vehicle radar system [[(18)]], if either

the at least one driven wheel (6) is spinning or shows a tendency to spin or the vehicle ~~[(1)]~~ is being braked under influence of the antilock braking system.

6. (Original) A computer program product comprising a computer readable medium and a computer program according to claim 5 stored on the computer readable medium.

7. (Currently Amended) An electronic control unit adapted for connection to a vehicle internal network bus ~~(14)~~ in a vehicle ~~(1)~~, the control unit comprising a storing means ~~(21)~~ and a computer program according to claim 5 stored on the storing means ~~(21)~~.

8. (Currently Amended) An electronic control unit according to claim 7, wherein the electronic control unit is a gearbox electronic control unit ~~(12)~~.